# STATEMENT OF WORK (SOW) FOR THE IROAN OF THE METEROLOGICAL STATION GROUP (MSG)

AN/TMQ-49

NSN 6660-01-428-9218

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# STATEMENT OF WORK (SOW) FOR THE Inspect Repair Only As Necessary (IROAN) For The Meteorological Station Group (MSG) AN/TMQ-49 NSN 6660-01-428-9218

- 1.0 SCOPE. This Statement of Work (SOW) establishes, sets forth tasks, and identifies the work effort that shall be performed by the Contractor in the IROAN of the Meteorological Station Group (MSG), AN/TMQ-49, Drawing Number 95008A0000, CAGE Code 01365, NSN 6660-01-428-9218, ID# 10269A, TAMCN E1035; hereafter referred to as the Meteorological Station Group. The Meteorological Station Group major system components to be IROANed are; one AN/TMQ-41 Meteorological Measuring Set, one OV-103/U Generator Trailer, two M101A3 Cargo Trailers and three High Mobility Multi-purpose Wheeled Vehicles (HMMWV). This document contains requirements to restore the Meteorological Station Group to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction, including materiel with more than six months shelf-life remaining."
- 1.1 <u>Background</u>. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment, components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."
- 2.0 <u>Applicable Documents</u>. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

### 2.1 Military Standards

MIL-STD-129 DoD Standard Practice for Military Marking

MIL-STD-2073-1D DoD Standard Practice for Military Packaging

MIL-STD-3003 Vehicles, Wheeled; Preparation and storage of

MIL-DTL-55507 Shelter, Electrical Equipment (with or without equipment), Packaging of

2.2 Other Government Documents and Publications: The issues of those documents cited below shall be used.

TM 10103A-13/1 Maintenance Manual AN/TMQ-41, Meteorological

Measuring Set

TM 10103A-23P/2	Repair Parts and Special Tools List, Meteorological Measuring Set
TM 10-5411-224-14	Operators, Unit, Direct Support& General Maintenance for Lightweight Multipurpose Shelters Model No. S-788/G Type III
TM 10103A-23/4-1	Receiving Set, Radiosonde
TM 10103A-23/5-1	Antenna AS-4335/TMQ-41
TM 10103A-23/5-2	Antenna AS-4335/TMQ-41
SL-3-10269A	Components List for the Meteorological Station Group
SL-3-10441A	Components List for Generator Trailer Group
SOW-01-835-1-00647C-1/1	SOW for M101A3 Trailer
SOW-01-835-1-09058C-1/1	SOW for M116A3 Trailer
SOW-01-835-2-08770A-2/1	IROAN SOW for HMMWV Series Trucks
Engineering Drawing 97005A4000 CAGE 01365	Tech Data Pkg. For the Generator Trailer Group, OV-103/U
Engineering Drawing 95008A0000 CAGE 01365	Meteorological Station Group, AN/TMQ-49
Engineering Drawing 95008A2000 CAGE 01365	Kit, Rack Installation
Engineering Drawing 95008A2100 CAGE 01365	Rack, Helium, Cylinder
DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
Military Handbooks (For Guidance)	
MIL-HDBK-61	Configuration Management Guidance

### 2.3. Industry Standards

JESD625-A Requirements for Handling Electrostatic-Discharge

Sensitive ESDS Devices

ANSI/ISO/ASQC Q9001-2000 Quality Management Systems-Requirements

**Industry Standards (for Guidance)** 

ANSI/EIA-649 National Consensus for Configuration Management

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or <a href="http://www.dodssp.daps.mil">http://www.dodssp.daps.mil</a>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

### 3.0 REQUIREMENTS.

- 3.1 <u>General Tasks</u>. In fulfilling the specified requirements, the Contractor shall provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, and test the Meteorological Station Group (MSG) Drawing Number 95008A0000, CAGE 01365. Upon completion of repair, the subject item shall be Condition Code "A".
- 3.2 <u>Detail Tasks.</u> The following tasks describe the different phases for repair of the MSG.

Phase I Pre-Induction
Phase II Repair

Phase III Inspection, Testing and Acceptance

Phase IV Packaging, Handling, Storage and Transportation

- 3.2.1 <u>Phase I Pre-Induction</u>. A Pre-Induction Inspection Analysis shall be made for each MSG to be IROANed under the provisions of this SOW using the Contractor Facility's diagnosis, inspection and testing techniques to determine the extent of work and parts required. The system shall be broken down into components including separating the Meteorological Measuring Set AN/TMQ-41 from the HMMWV. All systems will be evaluated for repair capability.
- 3.2.1.1 <u>AN/TMQ-41 System Pre-Induction Inspection and Inventory</u>. Upon receipt of the MSG, an inspection/inventory shall be completed per the SL-3-10269A, SL-3-10441A and the

approved drawing package 95008A0000 CAGE 01365 to determine any missing components or collateral gear. Any discrepancies shall be reported to Marine Corps Systems Command (MCSC), Code PMM141, Albany, Georgia on a report of discrepancy form SF 364 (Appendix B) within five days of receipt.

- 3.2.1.2 M1097A1 HMMWV Pre-Induction. The HMMWV pre-induction process for the M1097Al's will consist of a Limited Technical Inspection (LTI) in accordance with SOW-01-835-2-08770A-2/1, paragraph 3.2.1. Report DA-2404 (Appendix A) and Standard Form 364 (Appendix B) shall be used to report all anomalies and shall be provided to MCSC (Code PMM141), Albany, Georgia along with a copy of the LTI in accordance with section 4.0 of this SOW.
- 3.2.1.3 M101A3 Cargo Trailers. A pre-induction LTI shall be performed for the M101A3 Cargo Trailers for evaluation of repair requirements. Report DA-2404 (Appendix A) and Standard Form 364 (Appendix B) shall be used to report all anomalies and shall be provided to MCSC (Code PMM141), Albany, Georgia along with a copy of the LTI in accordance with section 4.0 of this SOW.
- 3.2.1.4 OV 103/U Generator Trailer (GT) Pre-Induction. A pre-induction LTI shall be performed in accordance with SOW-0l-835-1-09058C-1/I for the M116A3 Trailer for each GT in the evaluation of repair requirements. Report DA-2404 (Appendix A) and Standard Form 364 (Appendix B) shall be used to report all anomalies and shall be provided to the MCSC (Code PMM141), Albany, Georgia along with a copy of the LTI in accordance with section 4.0 of this SOW.
- 3.2.1.5 <u>Shelter Pre-induction.</u> A pre-induction LTI inspection performed for the MMS shelter for evaluation of repair requirements. Report DA-2404 (Appendix A) and Standard Form 364 (Appendix B) shall be used to report all anomalies and shall be provided to the MCSC (Code PMM141), Albany, Georgia along with a copy of the LTI in accordance with section 4.0 of this SOW.
- 3.2.2 <u>Phase II Repair</u>. After Pre-Induction Tests and Inspections have been completed, repair of the Meteorological Station Group shall be accomplished as separate items, HMMWV vehicles (three per system), AN/TMQ-41 Meteorological Measuring Set (one per system), OV 103/U Generator Trailer (one per system), M101A3 Cargo Trailers (two per system), and the Helium Racks (two per system).

Upon completion of the repair work the Meteorological Station Group components shall be reconfigured as a system. The following Standards and Publications shall be used to assist the Contractor in restoring the Meteorological Station Group to condition code "A":

SL-3-10269A Components List for the Meteorological Station

Group

TM 10103A-13/1 Maintenance Manual AN/TMQ-41, Meteorological

Measuring Set

TM 10103A-23P/2 Repair Parts and Special Tools List, Meteorological

Measuring Set

TM 10-5411-224-14 Operators, Unit, Direct Support& General

Maintenance for Lightweight Multipurpose Shelters

Model No. S-788/G Type III

TM 10103A-23/4-1 Receiving Set, Radiosonde

TM 10103A-23/5-1 Antenna AS-4335/TMQ-41

TM 10103A-23/5-2 Antenna AS-4335/TMQ-41

Engineering Drawing 95008A2100

CAGE 01365

Rack, Helium, Cylinder

Engineering Drawing 95008A2000

**CAGE 01365** 

Kit, Rack Installation

3.2.2.1 M1097A1 HMMWV Repair. The vehicle shall have all discrepancies identified in the Pre-Induction LTI corrected using the Phase II - IROAN paragraph of SOW-01-835-2-08770A-2/1. Any modifications peculiar to the Meteorological Station Group that are removed during the IROAN process will be reinstalled. The following Standards and Publications shall be used to assist the Contractor in restoring the HMMWVs to condition code "A" in their correct Meteorological Station Group configuration.

SL-3-10269A Components List for the Meteorological Station

Group

SOW-01-835-2-08770A-2/I SOW for HMMWV IROAN

3.2.2.2 M101A3 Cargo Trailer Repair. Deficiencies noted on the Pre-Induction LTI for the M101A3 Cargo Trailer shall be repaired/replaced and will be brought to condition code "A" by repairing or replacing those items identified on the pre-induction inspection. In addition to the discrepancies noted, all rubber goods and hydraulic brake components will be mandatory replacements. SOW-01-835-1-00647C-1/1 shall be used as a guide. The trailer will be steam cleaned, undercoated and painted.

Components or assemblies shall not be disassembled for replacement of parts unless that part has failed or the component assembly wherein the part is located is disassembled for repair. The following Standards and Publications shall be used to assist the Contractor in restoring the M101A3 Cargo Trailer to condition code "A":

SOW-01-835-1-00647C-1/1 SOW for M101A3 Trailer

3.2.2.3 OV 103/U Generator Trailer Repair. The Generator Trailer will be brought to condition code "A" by repairing or replacing those items identified on the pre-induction inspection. In addition to the discrepancies noted, all rubber goods and hydraulic brake components will be mandatory replacements. SOW-01-835-1-09058C-1/1 shall be used as a guide. The trailer will be steam cleaned, undercoated and painted.

Components or assemblies shall not be disassembled for replacement of parts unless that part has failed or the component assembly wherein the part is located is disassembled for repair. The following Standards and Publications shall be used to assist the Contractor in restoring the Generator Trailer to condition code "A":

SOW-01-835-1-09058C-1/1	SOW for M116A3 Trailer
SL-3-10441A	Components List for Generator Trailer Group, OV-103/U
Engineering Drawing 97005A4000 CAGE 01365	Tech Data Pkg. For the Generator Trailer Group, OV-103/U

3.2.2.4 <u>Shelter Repair</u>. Deficiencies noted on the Pre-Induction LTI shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of parts unless that part has failed, or the component assembly wherein the part is located is disassembled of repair. The following Standards and Publications shall be used to assist the Contractor in restoring the MMS Shelter to condition code "A."

SL-3-10269A	Components List for the Meteorological Station Group
TM 10103A-13/1	Maintenance Manual AN/TMQ-41, Meteorological Measuring Set
TM 10103A-23P/2	Repair Parts and Special Tools List, Meteorological Measuring Set
TM 10-5411-224-14	Operators, Unit, Direct Support& General Maintenance for Lightweight Multipurpose Shelters Model No. S-788/G Type III

### 3.2.3 Phase III –Inspection, Testing and Acceptance.

- a. Inspection, Testing and Acceptance of the HMMWV shall be conducted in accordance with SOW-01-835-2-08770A-2/1.
- b. Inspection, Testing and Acceptance of the M101A3 trailers shall be in accordance with SOW-01-835-1-00647C-1/1.

- c. Inspection, Testing and Acceptance of the OV 103/U Generator Trailer shall be in accordance with SOW-01-835-1-09058C-1/1 M116A3 trailers.
- d. Inspection, Testing and Acceptance of the Meteorological Measuring Set as a "System" shall be in accordance with the TM 10103A-13/1.
- e. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCSC (Code PMM141), Albany, Georgia representatives may require the Contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

## 3.2.4 Phase IV – Packaging, Handling. Storage and Transportation (PHS&T)

- a. The Contractor shall be responsible for preservation and packaging of item(s) being repaired under the terms of this Statement of Work. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with the level "A" requirements of MIL-STD-2073-1D, Appendix A, Table A.VI, Electronic Equipment, MIL-STD-3003 for Wheeled Vehicles and MIL-STD-2073-1D, Method 10 for the Generator Set. Items scheduled for domestic shipment for immediate use or short-term storage shall be to level B requirements of their respective document. Items classified as Electrostatic Sensitive Devices shall be in accordance with level "A" requirements of MIL-STD-2073-1D, Appendix J, Table J.Ia., Specialized Preservation Code "GX", and shall be packed in a reusable fast pack container.
  - b. Marking for shipment and storage shall be in accordance with MIL-STD-129.
- c. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The Contractor shall be responsible for shipment to the predesignated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the equipment to and from the contractor.
- 3.3 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to MCA within 15 days of receipt. This can be done by mailing a copy of the DD1348 to Material Management Department, Management Control Activity (Code 573-2), 814 Radford Blvd., STE 20320, Albany, GA 31704-0320 or faxing a copy to commercial (229) 639-5498 or DSN 567-5498.
- 3.4 <u>Contractor Furnished Materiel (CFM)</u>. The Contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP), Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

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- 3.5 <u>Electrostatic Discharge (ESD) Control Program</u>. The contractor shall establish, implement and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspecting, testing, marking, packaging, storing and transporting ESD sensitive components.
- 3.6 Quality Assurance Provisions. The Contractor shall provide and maintain a Quality System that as a minimum adheres to the requirements of ANSI/ISO/ASQC 9001-2000, Quality Management Systems Requirements. The program shall ensure quality throughout all areas to include processing, assembly, inspection, test, maintenance, and preparation for delivery and shipping. Unless otherwise specified in the contract, the contractor shall be responsible for performance of all inspection requirements. MCSC (PMM141) Albany, GA reserves the right to perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements.
- 3.7 <u>Acceptance</u>. The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and MCSC (Code PMM141), Albany, GA representatives shall be permitted to observe the work or to conduct an inspection.
- 3.8 <u>Rejection</u>. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code PMM141), Albany, Georgia, representative. The Contractor shall, at no additional cost to MCSC (Code PMM141), Albany, Georgia and/or their representative, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.
- 3.9 <u>Configuration Control</u>. The contractor shall implement configuration control to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. All permanent changes to the form, fit or function of the baseline shall be by Engineering Change Proposal (ECP). If it is necessary to temporarily depart from the authorized configuration, the Contractor shall prepare and submit a Request for Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing these configuration control documents.
- 4.0 <u>REPORTS</u>. Copies of requested reports shall be delivered to Marine Corps Systems Command, Attn: (Code PMM141), 814 Radford Blvd., Suite 20343, Albany, GA 31704-0343 unless otherwise directed in a Contract Data Requirements List.
- 4.1 <u>Pre-Induction Checklist</u>. The Contractor shall complete the Pre-Induction Inspection LTI for HMMWVs, M101A3 Trailers, MMS Shelter and OV 103/U Generator Trailer. One copy of each document shall be provided to MCSC (Code PMM141), Albany, Georgia, after induction of the Meteorological Station Group.
- 4.2 <u>Repairable Item Inspection Report</u>. The Contractor shall provide a Repairable Item Inspection Report for each Meteorological Station Group. The report shall be identified by United States Marine Corps Serial Number.

4.3 <u>Monthly Progress Reports</u>. The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the Meteorological Station Group IROAN Program.

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Appendix (A)

TM ITEM NO.	STATUS	DEFICIENCIES AND SHORTCOMINGS	CORRECTIVE ACTION	INITIAL WHEN CORRECTED
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Appendix (A)

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364-103

REPORT OF DISCREPANCY (ROD)

### INSTRUCTIONS

DEPARTMENT OF DEFENSE: DLAR 4140.56/AR 735-11.2/NAVSUPINST 4440.127E/AFR 400-54/MCO 4430.3E, Reporting of Item and Packaging Discrepancies, and/or DLAR 4140.60/AR 12-12/NAVSUPINST 4920.98/AFR 67-7/MCO 4140.1B, Processing Discrepancy Reports Against Foreign Military Sales Shipments. CIVILIAN AGENCIES: See FPMR handbook cited in 19(2)(a).

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15. DISTRIBUTION ADDRESSES FOR CO	PIE8										

Appendix (B)

STANDARD FORM 364 (REV. 2-90) (EG) Prescribed by GSA FPMR 101-26.8

(Previous edition is obsolete.)

16. FROM:			17. DISTRIBUTION A	DORESSEES FOR CO	PIES
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18. TO:		•			
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					including ZIP Code, a ne typing space below
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		*			I extend beyond right Iress must not exceed
					space typing lines.
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19.	IN ACCORDANC	E WITH NOTICE OF	DISCREPANCY ON	FACE OF THIS FOR	IM:
a. MATERIAL	DOCUMENT N	<b>IUMBE</b> R		·	
HAS W	ILL SHIPPED		b. NO RECORD	OF SHIPMENT, RES	SUBMIT REPORT TO RIATE REGULATION.
AN ADJUSTM	CALL DI		1	-	or or princetor down I be at
o. BILLING HAS E	SEEN/WILL CREDIT	DEBIT	d. INVOICE/BII	-L Iship	OF OF DELIVERY (Parcel Post ments) OR EVIDENCE OF
BE PROCESSE	7 AS A:			SH#	PMENT ENCLOSED.
f. AN ADJUSTM	ENT IN BILLING FOR THE REPORT	ED DISCREPANCY WIL	L NOT BE PROCESSED	FOR THE FOLLOWIN	G REASON WHICH IS CITED IN T
INDICATED RE			Lon		
(1)	REASON FOR NOT PROCESSIN	<u> </u>	(2)		REGULATION
(a) DISCREPANCY ALLOWED AND	WAS NOT REPORTED WITHIN TH D/OR	E TIME FRAMES	I DEFICIENCI	of the GSA Handb Es in GSA or Doo S PMR 101-26.8)	OOK, DISCREPANCIES OR HIPMENTS, MATERIAL, OR
(b) DOLLAR VALU	E DOES NOT MEET THE CRITERIA	PRESCRIPED IN	(b) CHAP. 2 AN	D/OR 7 OF DOD 400	0.25-7-M, MILITARY STANDARD
	TON OR AGREEMENT INDICATED		BILLING SY	STEM (MILSBILLS) AN TANCE, AS APPLICA	(D/OR DD 1613, U.S. DOD OFFEI BLE.
20.	THE FOLLOWING	DISPOSITION IS TO	BE MADE OF THE P	EFERENCED MATE	RIAL:
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PROCESS FOR SERVICE/AGE	DISPOSAL IN ACCORDANCE WIT	H b. REPRESEN CONCERNI	TATIVE WILL CALL FO NG DISPOSITION IN:	R DISCUSSION	
		†		<del></del>	DAYS
c. RETAIN MATE	RIAL AT NO CHARGE.	d. MATERIAL	WILL BE PICKED UP IN	l:	
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. SHIP MATERIA	il. (Specify location):				
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	· _	🗀			
(2) CHAF	RIGES COLLECT - VIA: FREM	GHT EXPRESS	PARCEL PO	19	postage advanced herevith.
(3) PARC	EL POST LABEL ATTACHED	(4) FREIGHT	PREPAID		enclose postage. Material ned Parcei Post collect.)
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1. OTHER (Specif)	,				
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21. SUBMIT NEW	is still required, REQUISITION	22. REPLACEN	IENT WITH SATISFACT IADE ON OR BEFORE:	UNT MATERIAL	
23. REMARKS (Combine	on separate sheet of paper if necessary	)		······································	<u> </u>
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PREPARING OFFICIAL	ED NAME AND PHONE NUMBER O	Z-W. SIGNATURE			24c. DATE
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Appendix (B)

# **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for falling to comply with a collection of information if it does not display a currently valid DMB control number.

Please DD NOT RETURN your form to the above address. Send completed form to the Sovernment Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE	ITEM NO.	B. EXHIBIT	ī	C. CATEGORY:	GORY:						
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# **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

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